

# **ABSTRACT**

A disposable sensing absorbent structure for detecting wetness comprises at least one absorbent layer and at least one sensing device comprising a magnetoelastic film. Such an absorbent structure enables the monitoring the status, *e.g.*, wetness and/or at least one biological and/or chemical analyte, in an absorbent article. A change in status, such as wetness, may reflect an event, such as urination or a feces event. Also included are methods for detecting wetness and/or at least one biological and/or at least one chemical analyte, using the sensing absorbent structure according to an embodiment of the invention.